Listing of Claims

Claim 1 (previously amended): An integrated circuit comprising:

a memory array having a first plane, a second plane, a third plane, and a fourth plane, wherein a first partition of the memory array comprises one of the planes and a second partition of the memory array comprises the remaining planes, wherein a write operation is performed on the first partition and a read operation is concurrently performed on the second partition; and

a status register coupled to the memory array, wherein the status register provides status information of the first plane, the second plane, the third plane, and the fourth plane.

Claim 2 (previously amended): The integrated circuit of claim 1, wherein the first partition of the memory array comprises the second plane and the second partition of the memory array comprises the first plane, third plane, and the fourth plane.

Claim 3 (previously amended): The integrated circuit of claim 1, further comprising:

a microcontroller coupled to the status register, wherein the microcontroller supplies control signals to the status register.

Claim 4 (previously amended): The integrated circuit of claim 1, wherein the first plane, the second plane, the third plane, and the fourth plane comprise equal memory storage capacities.

Claim 5 (previously amended): The integrated circuit of claim 3, further comprising:

an user interface coupled to the status register, wherein the user interface communicates status register information to be used to decide subsequent operations.

Claim 6 (previously amended): A method of reading while writing to a memory array, comprising:

dividing the memory array into n planes, wherein n is an integer greater than two;

defining a write partition, wherein the write partition is a single plane of the memory array;

defining a read partition, wherein the read partition is made up of all of the remaining n planes of the memory array; and

providing the status of the read partition and the write partition of the memory array with a single status register.

Claim 7 (original): The method of claim 6, wherein the memory array consists of multiple 4 Mb memory planes.

Claim 8 (original): The method of claim 7, wherein the multiple 4 Mb memory planes consist of nonvolatile memory cells.

Claim 9 (original): The method of claim 8, wherein the nonvolatile memory cell is a flash memory cell.

Claim 10 (original): The method of claim 7, wherein the write partition has a dynamic memory address, wherein the memory address changes any time a program or erase operation begins or resumes in a new memory plane.

Claim 11 (original): The method of claim 7, wherein if no program or erase

operation is performed, the read partition and the write partition are allocated to the same memory location.

Claims 12-17 (canceled)

Claim 18 (previously amended): An apparatus comprising:

means for partitioning a memory array into a fixed first partition and a variable second partition to enable multiple operations to be performed on the memory array at the same time; and

means for monitoring the operations performed on the memory array.

Claim 19 (original): The apparatus of claim 18 further comprising a means for communicating the status of the operations performed on the memory array to a user.